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FOREST INSECT AND DISEASE CONDITIONS IN MANITOBA PROVINCIAL PARKS, 1973

by F. J. Emond and G. N. Still

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Northern Forest Research Centre

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NORTHERN FOREST RESEARCH CENTRE
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** Not inspected in 1973

PROVINCIAL PARKS

ASESSIPPI PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Poplar bud-gall mite, Aceria parapopuli (Keifer)	T. aspen	High incidence in beach area.
Gall mites, Eriophyidae	T. aspen	Common throughout the Park.
Forest tent caterpillar, Malacosoma disstria Hbn.	T. aspen	Low populations.
Gall aphids, Pemphigus spp.	T. aspen	Low populations.
Poplar serpentine miner, Phyllocnistis populiella Cham.	T. aspen	Light damage.
A leaf roller, Pseudexentera oregonana Wlshm.	T. aspen	Low populations.
Poplar borer, Saperda calcarata Say	T. aspen	Light to moderate damage to mature trees in beach. area
Disease		
A witches' broom, Apiosporina collinsii (Schw.) Hoehn	Saskatoon	Common throughout the Park.
Black knot of cherry, Dibotryon morbosum (Schw.) T.&S.	Chokecherry	Common in the Park.
White trunk rot, Fomes igniarius (L. ex Fr.) Kickx	T. aspen	Fairly high incidence on mature trees.
Hypoxylon canker of aspen, Hypoxylon mammatum (Wahl.) Miller	T. aspen	Fairly high incidence on mature trees.
Aspen shoot blight, Venturia macularis (Fr.) E. Muell & V. Arx.	T. aspen	Low incidence on regeneration.

BIRDS HILL PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Ugly nest caterpillar, Archips cerasivoranus (Fitch)	Chokecherry	Scattered nests fairly common.
Oak webworm, Archips fervidanus (Clem.)	B. oak	Scattered nests sighted.
Pear slug, Caliroa cerasi (L.)	Cotoneaster	Moderate to severe leaf skeletonizing of ornamentals in beach parking area.
Large aspen tortrix, Choristoneura conflictana (Wlk.)	T. aspen	Some patches of moderate to severe defoliation in the northeast portion of the Park. Scattered light defoliation common throughout the Park.
Aspen blotch miner, Lithocolletis salicifoliella Cham.	T. aspen	Scattered light leaf mining.
Forest tent caterpillar, Malacosoma disstria Hbn.	T. aspen	Scattered light defoliation. Light defoliation is predicted for 1974, based upon a sequential system of egg sampling done in the campground and riding stable areas.
Prairie tent caterpillar, Malacosoma californicum lutescens (N. & D.)	Chokecherry	Scattered tents fairly common.
Larch sawfly, Pristiphora erichsonii (Htg.)	Tamarack	Traces of defoliation.
Boxelder twig borer, Proteoteras willingana Kft.	M. maple	Light twig damage common.
A poplar borer, Saperda sp.	T. aspen	Evidence of boring fairly common on scattered trees in the Park, particularly in campgrounds.

Willow cone gall, *Rhabdophaga strobiloides* O.S.	Willow	Some willow clumps lightly infested.
Aspen webworm, *Tetralopha aplastella* Hlst.	T. aspen	Light leaf infestations.
Disease		
Spruce mistletoe, *Arceuthobium pusillum* Pk.	B. spruce Tamarack	Moderate to severe brooming in black spruce stands in the northwestern part of the Park and on some trees near the west entrance. A few tamarack affected on the west side of the Park.
A needle rust on spruce, *Chrysomyxa* Sp.	B. spruce	Light infections.
Blacknot of cherry, *Dibotryon morbosum* (Schw.) T. & S.	Chokecherry	Patches of light to severe infections.
Globose gall rust, *Endocronartium harknessii* (J. P. Moore) Y. Hiratsuka	J. pine S. pine	Light gall infections in pine plantations.
White trunk rot, *Fomes igniarius* (L. ex Fr.) Kickx	T. aspen	Infected trees noted in most mature stands examined.
Hypoxylon canker of aspen, *Hypoxylon mammatum* (Wahl.) Miller	T. aspen	Cankered trees frequently sighted through the Park, including the campground.
Balsam poplar leaf blight, *Linospora tetraspora* Thompson	B. poplar	Patches of light to severe leaf blight of young trees.

CLEARWATER PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Pineapple gall aphid, *Adelges lariciatus* (Patch)	W. spruce	Light and moderate damage common.
Large aspen tortrix, *Choristoneura conflictana* (Wlk.)	T. aspen	Scattered pockets of light moderate and severe defoliation.
A leaf miner, *Lyonetia* sp.	Willow	Light damage.
Pitch nodule maker, *Petrova albicapitana* (Busck)	J. pine	Light damage to young pine.
Yellow-headed spruce sawfly, *Pikonema alaskensis* (Roh.)	W. spruce	Light damage to native
Larch sawfly, *Pristiphora erichsonii* (Htg.)	Tamarack	Light to moderate defoliation.
A leaf roller, *Pseudexentera oregonana* Wlshm.	T. aspen	Low populations.
Disease		
Jackpine mistletoe, *Arceuthobium americanum* Nutt. ex Engelm.	J. pine	Common in the area.
Spruce needle rust, *Chrysomyxa ledicola* Lagh.	W. spruce	Light infections common.
Aspen shoot blight, *Venturia macularis* (Fr.) E. Muell & V. Arx.	T. aspen	Light damage to regeneration.

DUCK MOUNTAIN PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Spruce gall aphids, *Adelges* spp.	W. spruce	Low populations.
Large aspen tortrix, *Choristoneura conflictana* (Wlk.)	T. aspen	Light damage near Wellman Lake. Moderate damage near Dragline Lake.
American aspen beetle, *Gonioctena americana* (Schaeff.)	T. aspen	High populations east of Boggy Creek and near Childs Lake. Low populations in north half of Park.
Pitch nodule maker, *Petrova albicapitana* (Busck)	J. pine	Light damage.
Yellow-headed spruce sawfly, *Pikonema alaskensis* (Roh.)	Spruce	Low populations on plantings.
Larch sawfly, *Pristiphora erichsonii* (Htg.)	Tamarack	Low populations in Baldy Mountain area.
Disease		
Yellow witches' broom, *Chrysomyxa arctostaphyli* Diet.	B. spruce	Brooming common in Baldy Mountain area.
Spruce needle rust, *Chrysomyxa ledicola* Lagh.	B. spruce W. spruce	Light infections common.
Globose gall rust, *Endocronartium harknessii* (J.P. Moore) Y. Hiratsuka	Pine spp.	Light damage common on plantings at Wellman Lake.
Aspen shoot blight, *Venturia macularis* (Fr.) E. Muell & V. Arx.	T. aspen	Common on regeneration aspen and plantings near Wellman Lake. Severe damage on regeneration near Dragline Lake.

GRAND BEACH PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Large aspen tortrix, Choristoneura conflictana (Wlk.)	T. aspen	Light defoliation common.
Jackpine budworm, Choristoneura pinus pinus Free.	J. pine	Scattered light defoliation.
A lace bug, Corythucha arcuata (Say)	B. oak	Light leaf infestations.
Ash flower gall, Eriophyes fraxinflora (Felt)	G. ash	Moderately infested trees in campground and cottage areas.
A sawfly twig gall, Euura sp.	Willow	Some moderately to severely infested willow clumps.
Aspen blotch miner, Lithocolletis salicifoliella Cham.	T. aspen	Scattered light leaf mining.
Forest tent caterpillar, Malacosoma disstria Hbn.	T. aspen	Moderate to severe defoliation in the East Park Gate area. Light Defoliation common through the Park.
Balsam fir sawfly, Neodiprion abietis Harr.	B. fir	Scattered light defoliation.
Pine needle scale, Phenacaspis pinifoliae (Fitch)	J. pine	Some moderate to severe needle infestations on young fringe trees near the campground.
Poplar serpentine miner, Phyllocnistis populiella Cham.	T. aspen	Scattered light leaf mining.

White pine weevil, Pissodes strobi (Peck)	J. pine	A few infested sapling tops noted in the campground area.
Larch sawfly, Pristiphora erichsonii (Htg.)	Tamarack	Traces of defoliation.
Willow cone gall, Rhabdophage strobiloides O.S.	Willow	Occasional willow clumps moderately infested.
Aspen webworm, Tetralopha aplastella Hlst.	T. aspen	Scattered light leaf infestations.
Pine tortoise scale, Toumeyella numismaticum P. & M.	J. pine	Light sapling infestations near the campground.

Disease

A witches' broom, Apiosporina collinsii (Schw.) Hoen.	Saskatoon	Some moderate to severe brooming of understory trees.
Jackpine mistletoe, Arceuthobium americanum Nutt. ex Engelm.	J. pine	Patches of moderate to severe brooming through the Park. Some trees affected in the campground area.
Spruce mistletoe, Arceuthobium pusillum Pk.	B. spruce	Patches of moderate to severe brooming through the Park.
Needle rust, Chrysomyxa sp.	B. spruce	Light needle rust fairly common.
Blacknot of cherry, Dibotryon morbosum (Schw.) T. & S.	Chokecherry	Scattered patches of light to severe infections.
Globose gall of poplars, Diplodia tumefaciens (Shear) Zalasky	B. poplar	Some trees lightly to severely infected in the campground.
Globose rust gall, Endocronartium harknessii (J.P. Moore) Y. Hiratsuka	J. pine	Light infections common.

White trunk rot, *Fomes igniarius* (L. ex Fr.) Kickx.	T. aspen	Conks frequently observed on mature trees through the Park, including the campground.
Rust, *Gymnosporangium* sp.	Saskatoon	Scattered light to severe fruit infections.
Hypoxylon canker of poplar, *Hypoxylon mammatum* (Wahl.) Miller	T. aspen	Cankered trees observed at scattered points through the Park, including the campground.
Rust broom, *Melampsorella caryophyllacearum* Schroet.	B. fir	A few brooms in the campground and widely scattered throughout the Park.

GRASS RIVER PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Birch sawfly, *Arge pectoralis* Leach.	W. birch	Common on open-growing trees.
Large aspen tortrix, *Choristoneura conflictana* (Wlk.)	T. aspen	Scattered light, moderate and severe damage.
A leaf miner, *Lyonetia* sp.	Willow	Severe leaf discolouration throughout the Park.
Pitch nodule maker, *Petrova albicapitana* (Busck)	J. pine	Low populations.
Poplar serpentine miner, *Phyllocnistis populiella* Cham.	T. aspen	Low populations.
White pine weevil, *Pissodes strobi* (Peck)	Co. spruce	Moderate terminal damage on plantings.
Larch sawfly, *Pristiphora erichsonii* (Htg.)	Tamarack	Light and moderate damage in Reed Lake area.
Disease		
Jackpine mistletoe, *Arceuthobium americanum* Nutt. ex Engelm.	J. pine	Common in Simonhouse Lake area.
Yellow witches' broom, *Chrysomyxa arctostaphyli* Diet.	B. spruce	Common in Simonhouse Lake area.
Spruce needle rust, *Chrysomyxa ledicola* Lagh.	W. spruce	Light infections common. Especially notable near Reed Lake.
Fir needle rust, *Pucciniastrum epilobii* Otth.	B. fir	Light infections common.
Aspen shoot blight, *Venturia macularis* (Fr.) E. Muell & V. Arx.	T. aspen	Common on regeneration.

HECLA PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
European alder leaf miner, Fenusa dohrnii (Tischb.)	Alder	Patches of light to severe leaf mining along roadways.
Fall webworm, Hyphantria cunea (Drury)	Deciduous Trees	Widely scattered individual trees lightly to moderately infested.
Forest tent caterpillar, Malacosoma disstria Hbn.	T. aspen	Moderate to severe defoliation along the east side of Hecla Island; on Punk, Deer and Black Islands; and on Grindstone Point.
Balsam fir sawfly, Neodiprion abietis complex	B. fir	Some scattered small patches of moderate to severe defoliation. Scattered light damage common.
Larch sawfly, Pristiphora erichsonii (Htg.)	Tamarack	Very light defoliation.
Willow cone gall, Rhabdophaga strobiloides O.S.	Willow	Occasional lightly infested clumps.
A poplar borer, Saperda sp.	T. aspen	Boring damage evident at scattered points through the Park including the golf course and campground areas.
Aspen webworm, Tetralopha aplastella Hlst.	T. aspen	Light leaf infestations.
Disease		
Spruce mistletoe, Arceuthobium pusillum Pk.	B. spruce W. spruce	Patches of moderate to severe brooming fairly widespread in the Park, particularly in black spruce stands.

A witches' broom, *Chrysomyxa arctostaphyli* Diet.	B. spruce	Isolated widely distributed individual brooms.
A needle rust, *Chrysomyxa ledicola* Lagh.	B. spruce	Patches of moderate to severe infections, particularly on regeneration.
Blacknot of cherry, *Dibotryon morbosum* (Schw.) T. & S.	Chokecherry	Some small patches of light to severe infection.
White trunk rot, *Fomes igniarius* (L. ex Fr.) Kickx.	T. aspen	Infected trees noted in most mature stands examined.
Hypoxylon canker, *Hypoxylon mammatum* (Wahl.) Miller	T. aspen	Cankered trees observed in the golf course and campground areas.
Balsam poplar leaf blight, *Linospora tetraspora* Thompson	B. poplar	Patches of light to severe leaf infection of young fringe trees.
A witches' broom, *Melampsorella caryophyllacearum* Schroet.	B. fir	Isolated individual brooms at widely scattered points.

SPRUCE WOODS PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Solitary oak leaf miner, *Cameraria hamadryadella* (Clemens)	B. oak	Patches of moderate to severe leaf mining.
Large aspen tortrix, *Choristoneura conflictana* (Wlk.)	T. aspen	Scattered pockets of moderate to severe damage.
Spruce budworm, *Choristoneura fumiferana* (Clem.)	W. spruce	Medium to high populations.
Forest tent caterpillar, *Malacosoma disstria* Hbn.	T. aspen	Low populations in campground area. Medium populations in north end of Park.
A leaf roller, *Pseudexentera oregonana* Wlshm.	T. aspen	Medium populations in north end of Park.
A leaf roller, *Sciaphila duplex* Wlshm.	T. aspen	Commonly associated with the large aspen tortrix, *C. conflictana*.

TURTLE MOUNTAIN PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Black-headed budworm, *Acleris variana* (Fern.)	W. spruce C. spruce	Light damage to plantings.
Large aspen tortrix, *Choristoneura conflictana* (Wlk.)	T. aspen	Pockets of moderate to severe defoliation.
Spruce budworm, *Choristoneura fumiferana* (Clem)	W. spruce C. spruce	Light damage.
A leaf tier, *Compsolechia niveopulvella* Cham.	T. aspen	Low populations.
Spruce coneworm, *Dioryctria reniculella* (Grt.)	W. spruce	Light damage to plantings.
Woolly elm aphid, *Eriosoma americanum* (Riley)	Elm	Light foliage damage.
American aspen beetle, *Gonioctena americana* (Schaeff.)	T. aspen	Some pockets of moderate to severe defoliation.
Bruce spanworm, *Operophtera bruceata* (Hulst)	T. aspen	Low populations.
Yellow-headed spruce sawfly, *Pikonema alaskensis* (Roh.)	W. spruce C. spruce	Light damage to plantings.
A leaf roller, *Pseudexentera oregonana* Wlshm.	T. aspen	Low populations.
A leaf roller, *Sciaphila duplex* Wlshm.	T. aspen	Low populations.
Disease		
White trunk rot, *Fomes igniarius* (L. ex Fr.) Kickx	T. aspen	Fairly common in the Park.
Hypoxylon canker of aspen, *Hypoxylon mammatum* (Wahl.) Miller	T. aspen	Some infections noted on mature trees.

WHITESHELL PROVINCIAL PARK

ORGANISM	HOST	REMARKS
Insect		
Black-headed budworm, Acleris variana (Fern.)	W. spruce	Low populations.
Birch tube-maker, Acrobasis betulella Hlst.	W. birch	Light infestations.
Cooley spruce gall aphid, Adelges cooleyi Gill.	W. spruce	Some young trees lightly to moderately infested.
Ugly nest caterpillar, Archips cerasivoranus (Fitch)	Chokecherry	Scattered nests common.
Large aspen tortrix, Choristoneura conflictana (Wlk.)	T. aspen	Scattered patches of light to severe defoliation.
Jackpine budworm, Choristoneura pinus pinus Free.	J. pine	Low populations.
European spruce sawfly, Diprion hercyniae (Htg.)	W. spruce B. spruce	Low populations.
Ash flower gall, Eriophyes fraxinflora (Felt)	G. ash	Light to moderate flower infestations in a few areas.
A looper, Eupithecia luteata Pack.	B.spruce	Low populations.
Green striped caterpillar, Feralia jocosa (Guen.)	W. spruce	Low populations.
American aspen beetle, Gonioctena americana (Schaef.)	T. aspen	Light defoliation.
Fall webworm, Hyphantria cunea (Drury)	Deciduous Trees	Widely scattered lightly infested trees.
Aspen blotch miner, Lithocolletis salicifoliella Cham.	T. aspen	Light to severe infestation of young trees in some areas.

Prairie tent caterpillar, *Malacosoma californicum lutescens* (N. & D.)	Chokecherry	Widely scattered tents observed.
Western tent caterpillar, *Malacosoma californicum pluviale* (Dyar)	W. birch	Low populations.
Forest tent caterpillar, *Malacosoma disstria* Hbn.	T. aspen	Extensive moderate to severe defoliation in the northern part of the Park, particularly along the Winnipeg River system.
Balsam fir sawfly, *Neodiprion abietis* complex	B. fir	Scattered light defoliation.
Spiny elm caterpillar, *Nymphalis antiopa* (L.)	Willow T. aspen	Low populations.
Pitch nodule maker, *Petrova albicapitana* (Busck)	J. pine	Light infestations.
Pine needle scale, *Phenacaspis pinifoliae* (Fitch)	Spruce	Light to moderate infestation of some trees.
Yellow-headed spruce sawfly, *Pikonema alaskensis* (Roh.)	W. spruce B. spruce	Scattered light to severe defoliation of individual young trees, particularly ornamentals and roadside regeneration.
Green-headed spruce sawfly, *Pikonema dimmockii* (Cress.)	W. spruce B. spruce	Low populations.
White pine weevil, *Pissodes strobi* (Peck)	J. pine	Infested sapling tops in many areas, particularly in plantations and regeneration stands.
Larch sawfly, *Pristiphora erichsonii* (Htg.)	Tamarack	Low populations.
Willow cone gall, *Rhabdophaga strobiloides* O.S.	Willow	Some clumps lightly to moderately infested.
Poplar borer, *Saperda* sp.	T. aspen	Some boring damage evident in most areas, particularly in campgrounds.

Aspen webworm, *Tetralopha aplastella* Hlst.	T. aspen	Light infestations.
Disease		
A witches' broom, *Apiosporina collinsii* (Schw.) Hoen.	Saskatoon	Light to severe brooming of understory trees in some areas.
Spruce mistletoe, *Arceuthobium pusillum* Pk.	B. spruce	Small patches of brooming northeast of Falcon Lake.
Yellow Witches' broom, *Chrysomyxa arctostaphyli* Diet.	B. spruce	Isolated single brooms.
Needle rust, *Chrysomyxa* sp.	B. spruce	Patches of light to severe needle infection, particularly on regeneration.
Pine needle rust, *Coleosporium asterum* (Diet.) Syd.	J. pine	Light needle infections.
White pine blister rust, *Cronartium ribicola* J.C. Fischer	W. pine	Some branch flagging in Falcon lake area.
Blacknot of cherry, *Dibotryon morbosum* (Schw.) T.&S.	Chokecherry	Small patches of light to severe infections.
Globose gall rust, *Endocronartium harknessii* (J.P. Moore) Y. Hiratsuka	J. pine	Scattered light infections common. Some individual trees moderately to severely infected.
White trunk rot, *Fomes igniarius* (L. ex Fr.) Kickx	T. aspen	Conks noted in many areas, particularly in campgrounds.
Artist's conk, *Ganoderma applanatum* (Pers. ex Wallr.) Pat.	T. aspen	Conks found on windfallen tree at Opapuskaw campground.
Rust, *Gymnosporangium* sp.	Saskatoon	Light to severe fruit infections at some points.
Hypoxylon canker of aspen, *Hypoxylon mammatum* (Wahl.) Miller	T. aspen	Low incidence of cankered trees common, particularly in campgrounds.

Balsam poplar leaf blight, *Linospora tetraspora* Thompson	B. poplar	Light leaf infections.
Needle cast, *Lophodermium laricinum* Duby	Tamarack	Light infections.
Yellow witches' broom, *Melampsorella caryophyllacearum* Schroet.	B. fir	Low incidence of brooms.
Stain, *Peniophora pseudo-pini* Weres. & Gibs.	W. pine	Associated with cankered saplings near Falcon Lake.
Aspen shoot blight, *Venturia macularis* (Fr.) E. Muell. & V. Arx.	T. aspen	Scattered patches of light to severe infection of regeneration trees.
Wind Damage		Blowdown fairly extensive.

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